

TIMER SYSTEM AND METHOD CAPABLE OF DYNAMICALLY COMPENSATING A DIFFERENCE BETWEEN A COUNT VALUE AND A THRESHOLD VALUE FOR THE IMPRECISION OF A TIMER

Abstract

A timer system and a method capable of compensating a difference between a count value and a threshold value for the imprecision of a timer. The timer system includes a timer for repeatedly triggering a reference event according to a predetermined time interval; a first storage unit storing a threshold value; a second storage unit storing a count value corresponding to the triggered reference events; a tracking module tracking an actual time interval between a first reference event and a second reference event; a calculating module calculating a compensation value; a compensating module for reducing a difference between the count value and the threshold value; and a decision logic for generating the acknowledgement event if the count value is no longer less than the threshold value.